

I CLAIM:

1. A rotatable carrier comprising:
a casing,
a detecting device attached to said casing,
5 a housing rotatably supported on said casing, to support objects thereon,

means for rotating said housing relative to said casing, to rotate the objects toward selected directions, and

- said housing including an interacting member provided thereon
10 and arranged to act on said detecting device, in order to control said rotating means, and to prevent said housing from being over rotated relative to said casing.

2. The rotatable carrier as claimed in claim 1, wherein said rotating means includes an inner rack provided in said housing, and
15 a gear rotatably received in said casing and engaged with said inner rack of said housing.

3. The rotatable carrier as claimed in claim 2, wherein said rotating means includes a motor coupled to said gear, to rotate said housing relative to said casing via an engagement of said gear with
20 said inner rack of said housing.

4. The rotatable carrier as claimed in claim 3, wherein said rotating means includes a reduction gearing coupled between said gear and said motor.

5. The rotatable carrier as claimed in claim 3, wherein said
25 casing includes a control circuit coupled between said motor and said detecting device.

6. The rotatable carrier as claimed in claim 1, wherein said

casing includes a plate secured thereon, and a plurality of balls disposed between said plate and said housing, to smoothly support said housing on said plate of said casing.

7. The rotatable carrier as claimed in claim 6, wherein said
5 plate includes a track having a groove formed therein to receive said balls.

8. The rotatable carrier as claimed in claim 6, wherein said housing includes a track having a groove formed therein to receive said balls.

10 9. The rotatable carrier as claimed in claim 6 further comprising a ring rotatably engaged onto said plate and including a plurality of holes formed therein to receive said balls respectively, and to space said balls away from each other.

10. The rotatable carrier as claimed in claim 6, wherein said
15 housing includes a center cavity formed therein, said plate includes an axle extended therefrom and engaged into said center cavity of said housing, to rotatably attach said housing to said plate.

11. The rotatable carrier as claimed in claim 1, wherein said casing includes a peripheral flange extended radially and outwardly
20 therefrom, and said housing includes a circular bar secured thereto and engaged with said peripheral flange of said casing, to rotatably attach said housing to said casing, and to prevent said housing from being disengaged from said casing.

12. The rotatable carrier as claimed in claim 1, wherein said
25 detecting device includes a signal emitting device, and a signal receiving device, and said interacting member of said housing is provided to act with said signal emitting device and said signal

receiving device of said detecting device.

13. The rotatable carrier as claimed in claim 12, wherein said
interacting member of said housing is arranged to be engaged
between said signal emitting device and said signal receiving device
5 of said detecting device, to selectively block signals emitted from
said signal emitting device, and to prevent the signals from being
emitted to said signal receiving device of said detecting device.

14. The rotatable carrier as claimed in claim 1 further
comprising at least one switch to control said rotating means.

10 15. The rotatable carrier as claimed in claim 1 further
comprising a remote control device to remote control said rotating
means.

16. The rotatable carrier as claimed in claim 1 further
comprising at least one second detecting device attached to said
15 casing, to act with said interacting member of said housing, and to
control said rotating means, and to limit a rotational movement of
said housing relative to said casing together with said detecting
device.

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